

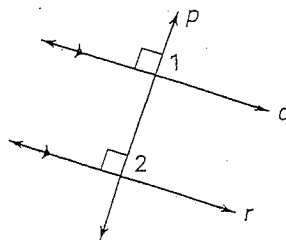
LESSON
3.2

Practice *continued*
For use with pages 153–160

In Exercises 23–31, complete the two-column proof.

GIVEN: $p \perp q$, $q \parallel r$

PROVE: $p \perp r$



Statements	Reasons
$p \perp q$	23. _____ ?
$\angle 1$ is a right angle.	24. _____ ?
$m\angle 1 = 90^\circ$	25. _____ ?
$q \parallel r$	26. _____ ?
$\angle 1 \cong \angle 2$	27. _____ ?
$m\angle 1 = m\angle 2$	28. _____ ?
$m\angle 2 = 90^\circ$	29. _____ ?
$\angle 2$ is a right angle.	30. _____ ?
$p \perp r$	31. _____ ?

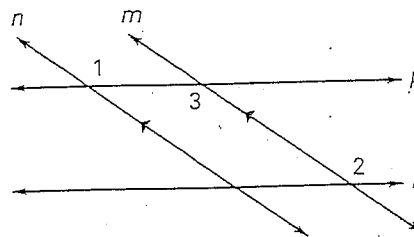
LESSON
3.3

Practice *continued*
For use with pages 161–169

In Exercises 19–23, complete the two-column proof.

GIVEN: $n \parallel m$, $\angle 1 \cong \angle 2$

PROVE: $p \parallel r$

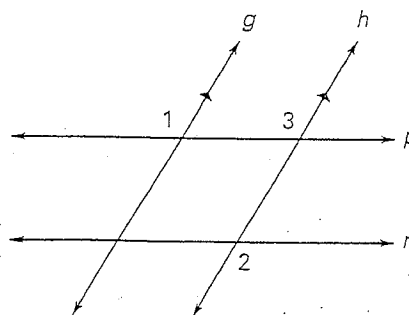


Statements	Reasons
$n \parallel m$	19. _____ ?
$\angle 1 \cong \angle 3$	20. _____ ?
$\angle 1 \cong \angle 2$	21. _____ ?
$\angle 2 \cong \angle 3$	22. _____ ?
$p \parallel r$	23. _____ ?

In Exercises 14–18, complete the two-column proof.

GIVEN: $g \parallel h$, $\angle 1 \cong \angle 2$

PROVE: $p \parallel r$



Statements	Reasons
$g \parallel h$	14. _____ ?
$\angle 1 \cong \angle 3$	15. _____ ?
$\angle 1 \cong \angle 2$	16. _____ ?
$\angle 2 \cong \angle 3$	17. _____ ?
$p \parallel r$	18. _____ ?

LESSON
3.3

Practice continued

For use with pages 161–169

In Exercises 10–12, choose the word that best completes the statement.

- If two lines are cut by a transversal so the alternate interior angles are (*congruent*, *supplementary*, *complementary*), then the lines are parallel.
- If two lines are cut by a transversal so the consecutive interior angles are (*congruent*, *supplementary*, *complementary*), then the lines are parallel.
- If two lines are cut by a transversal so the corresponding angles are (*congruent*, *supplementary*, *complementary*), then the lines are parallel.
- Gardens** A garden has five rows of vegetables. Each row is parallel to the row immediately next to it.
Explain why the first row is parallel to the last row.

